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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-08-28-96 **Date: 25-02-19**
Customer	:	Assistant Executive Engineer,Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.
Agency	:	Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.
Customer's Reference	:	BBMP/EE/PD/WO/0040/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-08-28-96 **Date: 23-03-19**
Customer	:	Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.
Agency	:	Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.
Customer's Reference	:	BBMP/EE/PD/WO/0040/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-02-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-28-96** **Date: 25-02-19**
Customer	:	Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.
Agency	:	Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.
Customer's Reference	:	BBMP/EE/PD/WO/0040/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-02-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-02-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	246	246	1.6	98.4	90-100
3	20 mm	7875	8121	54.1	45.9	30-70
4	10 mm	3898	12019	80.1	19.9	10-35
5	4.75 mm	2587	14606	97.4	2.6	0-5
6	Pan	394	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-96 **Date: 07/03/2019**

Customer : Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.

Agency : Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.

Customer's Reference : BBMP/EE/PD/WO/0040/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M25	28/02/2019	07/03/2019	149.51 X 150.93 X 149.46	22566	8.929	526.5	23.3	22.8
2	RCC	M25	28/02/2019	07/03/2019	150.62 X 150.39 X 151.11	22652	8.919	507.7	22.4	
3	RCC	M25	28/02/2019	07/03/2019	149.46 X 150.10 X 151.53	22435	8.876	506.6	22.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-08-28-96 Date: 28/03/2019
Customer	:	Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallazandra Ward No.13, Shyttihalli Sub Division.
Agency	:	Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.
Customer's Reference	:	BBMP/EE/PD/WO/0040/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-19
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	RCC	M25	28/02/2019	28/03/2019	150.61 X 149.64 X 150.59	22538	8.810	611.2	27.1	27.1
2	RCC	M25	28/02/2019	28/03/2019	149.61 X 151.26 X 150.84	22630	8.727	592.6	26.2	
3	RCC	M25	28/02/2019	28/03/2019	149.78 X 151.48 X 151.06	22690	8.317	636.1	28.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-96 **Date: 07/03/2019**

Customer : Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.

Agency : Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.

Customer's Reference : BBMP/EE/PD/WO/0040/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M25	28/02/2019	07/03/2019	151.23 X 150.00 X 150.79	22684	8.929	542.8	23.9	23.0
2	RCC	M25	28/02/2019	07/03/2019	151.65 X 151.69 X 149.10	23004	8.919	517.9	22.5	
3	RCC	M25	28/02/2019	07/03/2019	149.18 X 150.61 X 150.08	22468	8.876	505.7	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-28-96 Date: 28/03/2019

Customer : Assistant Executive Engineer,Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Ashwathkatte Near Mallikarjuna Swamy Temple Mallasandra Ward No.13, Shyttihalli Sub Division.

Agency : Sri.Manoj Naik, No.58, 3rd Main Road, Manasa Layout, Kengeri Upanagara, Bangalore-560060.

Customer's Reference : BBMP/EE/PD/WO/0040/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-03-19

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M25	28/02/2019	28/03/2019	150.11 X 151.01 X 149.74	22667	8.810	620.4	27.4	27.4
2	RCC	M25	28/02/2019	28/03/2019	150.13 X 149.81 X 150.26	22492	8.727	600.1	26.7	
3	RCC	M25	28/02/2019	28/03/2019	151.17 X 149.42 X 150.71	22587	8.317	637.6	28.2	

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